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Amiga Atari ST BBC C64 CPC MSX PC PCW

Spectrum

Sword of Sodan

The best sound and vision on the Amiga? page 16

MCTRAD.

Lotus bundling deal looms but staff get the chop for Christmas - see 2 & 5



BAN THOSE Violent games

Guess who wants to kick out the so-called computer nasties?

Charts 3 * Letters 12 * Entertainment 15 * Sugar 18 * Beginners 22 * Tips 29 * Vouchers 33 * Columns 36 * Job ads 44 * PSsst 46

Do it yourself NOWTSANSTRADTHE

being able to find a cheap business package, tailor made for their own

That's the theory of Electors Software Development System which will form the basis for 'almost any business application". According to bess Tony PC owner will be able to handle the simpler programs such as table databases. The programs will allow users to form a package from scratch or

'You need to know what's best for your business rather than how to procould be writing very sophisticated

Excetors is putting the basic database generator out as shareware and is then users will invest in the £243 full range **LOTUS EATE**

Amstrad is planning to bundle caus in bundling subside software with his



phose 0401 44955. Amstrad mag trio scooped

Thes have been said -

perverse for one company to be "Me're quite ours that there is



Dangerous' hacker banned from telephones

Kevin Mitrick has been charged by The 25 year old's charges include altering a judge's credit record, tam-The Neuromanour style backer was

have arrived to be kept in custody to when he was only 17 when he can telephone and albered people's telephone bills and stale secret data val When armed with a computer be The practice of completely cutting

JUNO LECTOR Chris Anderson - CONTRACTORIO no Retr Metod - vous none Cale Carebell-SOVERS COTOR And Storer-STATE WINTER RIV Homes-com crosscome And Lauter-scrop 104 July O'Shear AT ASSISTANT Planter Athen-

IONEROSEION WAVGET Mark Salmon - NO DISCO-TANK Jennie Brans, Sootie Cardenag - AD THESET © Future Publishing Ltd

SANYO STORMS IN

months of this year, including an upgrade of its low cost XT. a 386 lapton, a laser printen OTP system. and an Intelligent Disk Server for 266

The new 8088 XT is the Mark II version of its existing MDC16. The 3.5 inch disk based machine will run at 11 MRs and of £580. Sanyo through has once again ing the lew cost PC market largely does-

and are really for those people who want. to pay for reliability and longestry from

computer user who would rather ner extra for those qualities," said Sappris MBC16 Mark II should be first shown at the Which Computer? Show in Februwards. Higher end machines such as a 20 and 40 magabate rension should also The STANCE eight page per minute

loser printer will be headled with DTP package Timeworks at a price of someing the bundle the ideal solution for those people who not only want to start on DTP but also word a system approaching the quality of Festiva

networked applications by up to ten times. The hippest problem with networks is beining to wait for disks to load," said Calbert, "You just have to speeds things up by ten times." The only

VERNMENT EYES GAMES CENSORSI

Dickers hopes that a certifying

Stacey II on the drawing board?



THIS WEEK

Operation NA Couble Dragon

Last Ninis 2 B BTigs Section DN CPC ST

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And a happy New Year Superficially, 1989 has begun much like as

Must be Sone about violent computer games

But what makes this year so very different is the days of the grits reaper calling companies unts you've paid for). Talk these days is largely of increasing sales - not of re-arranging bank debts.

COMPUTER I FAN AND HUNGRY AMSTRAD CUTS STAFF

Ametred has ordered a range of job | nt read too much into it," said a | employ people who aren't necessary "Americad is a fast growing compa- pie who lost their jobs but the man

"Assessed has always taken the

- Could do better? -

The return of Durell



Substear and Combat Laux is keeping a lew profile and sticking to simply For the moment, Durell is working

exclusively for Again Again on Sabe-Durell's boss Bobert White was knews to be disillusioned with the

try when he dropped out in September the role of software hermit and is declining to talk to the press explained to Express: Tabert isn't one for the bright lights. He's just working with us at the moment because it

means no fass. It's all clear cut and simsmall team of programmers has been is understood though that White was games software, albeit at the program-

Amiga portable planned by ambitious US duo

I's hoped the machine will

The machine - called the Journey Man - in being out includes han RICE 15 inch.

why not us?" said partner Mike ney Man was planned to weigh

approves of the development

supply only, and weighs in at

money together. It's really ning to about \$10,000. But

modorn's mother boards and

there," explained Morrison.

It's Jocky on the Oche for Zeppelin

Cuddly darts here and drinking sup-Games for a budget darts game Zeppelin apparently picked up the Wilson aged to pull himself through the first round

Brian Jobley. Wilson went on to win the Jacky Witser's Darts Challenge is out now



MEN COMPLETE EXPRESS + 7 MIN MRY 1989 + 5



Computer games really screw you up?

That is what a group of campaigners are claiming in the IIS and here, as the prospect of a Government committee looking into violent games looms.

COLIN CAMPBELL talks to those with the opinions. the research and with the most at stake...

Violence breeds violence I







THE RESEARCH

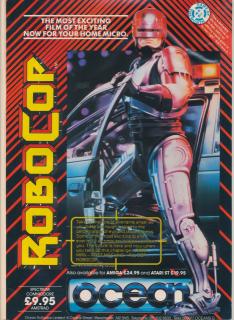
· 58 per cent of the games were based on war-

 R3 ner cent featured violent themes · Gazzes picked out as most dangerous were

THE REQUESTS

• The development of games which involve

· Legislation that bens the most violent carner · Legislation requiring labels on all games · ICAVE stresses that video games are not a



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Violent reactions I

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Violence breeds violence II

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THE RECORD INDUSTRY

BANNING: A CASE STUDY

EXPRESS MAIL

MAINTAINING STANDARDS

sponding to the graphics adaptor, it.

CRACK TO THE FUTURE

Not a few computer journalists have

Cood spint. To an unquantity

it only becomes dodey when

sughe, Talking of which

SIMPLY CRACKERS

X There are a number of peca-

The yest majority of PC gars will run on any graphics standard.

ages usually are quite explicit about

have a computer and are satisfied the form of "My computer's better

bought a couple of games you

EVEN MORE CRACKERS

X mora usid nor rince so ing these sort of difficulties, you

WITH AMIGAS LIKE THAT ...

X What nam chams you have

around you! The A500 isn't as popu-

MORE +2A PROBLEMS purchased a new black +2A Spectrum

here landed with a bit of a stiff. All



BOUQUETS AND BRICKBATS

X Spains that cames resinus are

all men, if it caused any offence -

The citty little Tayword should

Out Run is indeed available for



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GRAPHIC DETAILS

One of the problems in the

increased graphics' potential, More

Mexcuses Wes, yet another MSXer, and by now you

X Dan't bluese the software houses for the fallare of MSX. They're



Empire Serker II Emiya Haghes In Enterner Endare Racer Epys.... F18 Engle

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on the Arriga arridst a degree of excitement We recken Dungeon Master looks like a straight expect more from a conversion

could have significantly

specific . You can out these trees

. Getting the run-down on a colleague's state of health



· OTHER VERSIONS

· A couple of Amiga biltzers hit the headlines this work, both in from the States and both duc-Sword of Sodan brings you gitty graphics and snazzy sounds while Dungeon Muster - well you

You'll probably sink to the depths of despair with 20000 Leagues while you're cohesewed in sub-aquatic searches. But if it's a good old spot of sport you're look-

two addictive little numbers that make Rollenhall shoot-am-up strategics and finally Gaustlet Z's 8 way scrolling made maybem. So, no believe after Christmas! Which is probably just as well.

Arcade advertures on down a starm with the to new depths, or surface with realer sales? Maybe



NEW COMPUTER EXPRESS • 7 JANUARY 1989 • 15

OF SODAN

tan is the pseudonym of a demo creator from Deamark who has produced some of the best Arriga derrios thus far. So it was only a matter of time before he extended his programming skills to writing games. Sward of Sedan is the result and is imported by Gainstar, Unit 1, Rear of 7 willington Road, Sandwarst, Surrey GULT BAIR.





. Has our beroine met her match?

· GAMEPLAY

nulti-load levels battling against a myriad

As well as wielding a sword you'll be able to pick up

Wise use of these extra goodies is an important for-

. These has combin how just eithed you not

Starting play provides you with the first plimpse of the



This pike-wielding woodestop is about to get his joust

The cely slight visual quibble is limited number of

Rik Haynes

00000



ENTERTAINMENT





SHAPESHIFTER (FLY 5) . A near-perfect blend of strategy and shoot-em-up action. This

game plays better than it looks The Arriver Collection is a compilation of Archon

(Archord which would attain a five-star rating for its 0000 Bik Haymen

Fancy a game combining soccer and ice booker with the kind of friendly player interact

Tau're the one in goal just about to get spread over the back

your assault upon the computer/other player opposition After a while you'll realize that the computer is far

0000

SKATE OR DIE



Electronic Arts is risking its reputation on skating being 'in' this week, but that may not matter as

C64 Skate or Die was a great seccess last year Presumably EA's booing the same thing will hap-Starting in Rodney's Skale Shap, you're given the choice

During play you'll need to perform a wide range of

 GRAPHICS AND SOLIND Skate or Dir's CGA graphics and PC soundeffects are

attractive sprites and backdrops.

White CS4 Skate or Die was an all round creat release. side an empyable jam, jump and joust, and is a good game for the younger PC er.

000

GAUNTLET II



Gauntlet II finally makes an appearance on the Arriga, some six months after its release on the ST and about a year after the 8-bits. Has it been

Adversaries ranging from phosts to invisible wounds

ST Gaustlet it is much the same as the Amiga version.

Still, Gauntlet II does have an edge with its simultane

000 Dik Havnes

DOS or bust

Part VI: The Amstrad army marches on its stomach for fights. This time, as William Poel relates, it was taking on the PC world

The management of 1996. The CVM sees beginning to some root create one of all those approhiphed identitys of Anderside conthe separation of the CVM sees of

wouldn't we all be glod if such an opportunity presented itself to get such quick? Business, was, as they say, good. LocaScript turned out to be remarkably popular with the asposes who didn't need computer magiczions and no drieft resilies that they ought no be fledies it impressable to use and needlevely astification it impressable to use and needlevely asti-

races and so detert resize that they sught so be finding it impossible to use and positively satiquarian. The early version was finity quaries expenseded by the 1.2 edition, which then consisted Persokoliby unalized until the entirely new version 2 appeared races have Hosewax, with that time lot out of the way and new a motion of greduction and shapping, these

Fiddling STs

During the summer of 16.1 managed to take my time of the place of one of the way fined Attack place of one of the way fined Attack part of 17 mysters in the country. I consonted a nail accor facing a collaborate developer, and paid over the meney when I went to collect it. Spreadly we then proceed any other and paid over the meney when I went to collect it. Spreadly we are according to the process of the pro

More teapots, Vicar? A little-known fact is that Amstrad has on

Ritleknown fact is that Amstrad has occurate in products other than electronics. At a was a major supplier of brapols from the major department stores in the UK. If it

Mr S. came sompting round on one of his loan of ampacton. He is fined of studieng strend the office, and manager to appear just 3 of the wer moment that you might be parting out of the wer moment that you might be parting out of the war and crypt a just imagnifical. This time to be all the parting out of the war and crypt a just imagnificant. This time to be all the parting of t

So I flogged it on (at cost, honest) to active are developer, H.Suft, which has a

games Mr. S. had made the decisions to absording from the made the decisions to absording from the man of the

the expected IBM close project was just under way, we warmnood the man four Digital Penearth (which samply could not believe its lack as being able to jet ponce for the constituted sales of the very long in the tooth CPM operating system on the CPC and PCM app.

CPC and PCW systems).
The man from DR was somewhat faced that there wis not a single IBM PC or companishe in the company. So he day hasded an AT up in

> presentation of LRNs attempt to got bed fixrosoft for stooling its birthoft as unreoperating system supplies. In addition to G DOS Piss was mentioned, and at a price would be hard to outside. Discussions with Mixrosoft at the time of

proving (as they always and to be reduce as unfailling, Microsoft had yet to be properly to frested by the Freezwood Seume Boys (I con renamber who consed that designfully appear ate phrases, I think it may even be the publisher this noble organ in his formative years as a har on a trude magnitud; been signed, so the product went along with operating systems. Most agree that, as even DR product was the more elegant and interest but depart and interesting 'don't put no mon-

So weeking the stick with which he was got to thresh Microsoft into a polp by learching it machine sporting DOS Plas. Mr S. p.x. With E Gates and the Microsoft crew to come down it deal that was acceptable. Mr Suppl unleasted it

Poel position

I only with I had rell lown around so relizion's measurant, saison of Showsheet full, 1981. I trust measurant, saison of Showsheet full, 1981. I trust persons the mailest for COMA software lost of C

The CPVM opportunity alose mainly because the case would take it on, and we had a court ment to do so in order to justify the claims in t



*Sugar Never mind the 1512's plantic, just look at the sales

So. DR was neturally absolutely this be relegated to the role of the walking dance by this move, and bursely made the province to this OEM.

a oppositing to surprotest The PCISI2 project proceeded apace and, a see, the original specification was harshy tocche ander to ensure that the poodset surprot up or me jami if it dishri, then moone had any cooss (). Amounted duly decied his coloroco, the presdy refused to believe E.

mesent going to got embrouled in PC softwo ther trying to got blood out of a stone when loing for CPSM software to run on the PCM. I some utterly joyless task of Ametrad softw management was now one of playing the sole

WordStar is born

be a rose, wouldn't it, old son? And so a product

Disunited States

Amstrad never quite got it together on hard the technical director - guess who may proved Still, the main object of the exercise was to pay

Cobbling nonsenses

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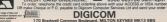
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rst on the Line for 89

This week we make a beeline for Reline's imports and cop a couple of nouveau beau jollies.

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ZAK MCKRACKEN AND THE ALIEN

Ubi taps a new veir







* (Roser) Window Wizard: (Bolow left) Dyter 07: (Below right) Legend of Faergall.



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What you see... is what you see

Peter Worlock continues his guide to understanding printers, and explains how your computer can show you one thing while your printer has other ideas...

to the fine two parts of this native steels or correction, were soon that there are a law rattack of lactors to be considered in death of the control of the

However, so far as your petter in concess provided by the control of the control this method as their standard way of dispit things on the acresm. However, any one, with a bi-ses display can use the same preant flats what desires publishing and applies software does. The method allow computer to use different typefaces and for well as method.

will as graption.

Owner of Brazel. Two Turner core told as an execut, "Mate page see a shart yet one or in suit is execut." Mate page see a shart yet of the probably had not story what yet open the page shart compare position.

In the page see a shart to the shart of that is the same of the same of the same see a shart of the same see

at would be considered very crude.

For example, most change discussing spatters in the property of the proper

of only, if you down a square on the acreer, it is not only square. It may appear square but that's or because the program that does the drawing an making allowances for the computer's depins.

You can prove this easily. Using any longue



* "What you see,... it ain't necessarily what you and

on 50 horizontal pixels for the top

Seminary, when you come to print our a doc ment, poul get a hopelessly distorted image to simply print dot for dot. You have so allow you have pounded searces of distortions: the output label or distortion is to provide or bot the companies and printer easier. Once a guit, which back to the importance of printers of printers with printers for your easier printers.

Font factors

in the printing hypotheses, signify different considerations apply on have to take account of the basic professes couldness dones Most software processes of the processes of th

The day were characters meet to be 150% or 25 meet high 50% or doping, year charges here. He may be a company of the control of the 150% of the 150% of the 150% of the temperature of 25 meet the 150 meet the

This can be do see the continue to the property of the continue to the continu

Technobabble

The simplest form of display interfaces, the time means of putting a comparise image onto an ordinary TR. All of the older Both comparise. Spectrum, DSA, BBC with how life modulations built in Most versions of the Asia ST also support this clock for M for modulater in the DBC, so STM and STPM are OR. The Amiga chemit support RF — you need a separate modulator levels in some being builded with the ASSCI. The custom is that you get a readily group person.

empects
introduced video is the next step up in display quality in rame deriven from the fact that the various bits or rame deriven from the fact that the various bits or signal - color, brightness, etc. — are all haugest petter to form a composite signal. Most percharacter and the signal was mancharacter manifest used to composite interface, are color monitors used to composite interface, are color monitors used to composite interface, are color monitors used to the total than include their than SF bit after often the signal in a much before than SF bits direct often include.

A weekly assault or computer jurges

#08

#08

Floor, NY is the means. Derived from the fact that it includes a so conform TV, All of . Rise should be \$600 manifes much the

b) However, there are now a number of variations RG within can be crucial. Early RGB ministrus were digital devices – that is, it shades of colour were alreaded in fixed fair digit slugges. So they could display only a limited range colours – pertuge only 16 shades. The BBC Micro TLES and PC DGS are digital RGB in linear as RGB because of the RGB of the RGB

unt on digital 102 in known is 1035 because mates an extra signal governing colour intendieix computies support a much greater range, c 512 on as 51, 4096 on as Amiga, and in 50,000 on a VSA-equipped PC. Digital sign afficiently flexible to accomposite this range, computers require analog 868 monitors with



. A screen dump from a Mac compared to the same document printed out los a

inting package wil use graptice drivers to ru

No discussion of printers is possible without an

exposition on the joys of the DIP switch DIF

Any feature selectable by dip switch is usually





Infuriating!

The problems which make you want to throw it all away and what to do about them

"I was cleaning my disk when it accidentally went off and killed my files"

choose that needs to be does occasionally if you want to made the most of your disk space and avoid christering up disks with unwanted like. Pechage you simply want to delete a mage of sld libes that neers needed, or you may want to copy files to an archive disk and debot the only itaals.

concurrances, even experienced users mass occasional ministors, non-terminative delicing a filthey manifed to keep, or copyring con file on tell of another therety occurrenting the wrong file.

There are physical accidents lot, Dusks, eye cally 5.25 (disks, are relatively fragile and if ye bend or crush them, or expose there to a magnetic field, you can love data.

that can sometimes subvage accidentally delet files, or recover at least some data from a da aged disk or pertially overwritten file (if a file it been complemely overwritten there's no hope over from the complement of the complement.

ages one or paramy overwritten there's no hope gone forever).

On the PC, PC Tools Deltaw is one of the b tools for recovering deleted files and other de

aged data. Others include Mirrorself's File Acotor Plus, and The Mace Utilizes. Old owners should try ICPUS, whose memberthip secretary is Jack Cohen, 30 Brancoster Bood.

Oid owners should try ICPUS, whose membership secretary is Jack Coben, 30 Brancoster Boad, Newbury Pack, Illied, Essex 192 78P. A useful IPVM users group is at 20 Gordon Mansions, Tor-

solid IV which provide a complete toother for emphasing disks. Dated also produces a similar oliou for the ST, as does Everham Micros with Disector ST but these really are dangerously ewerful for beginners. A better bet for ST begin-

a would be HEOTE Saved!

migo owners are very badly served in this area
it appears that if you accidentably delete a the
the Amigo you can longer about it. Although
so are disk editions around (that let you fishin
h disks are avery low level), like all much trolk-

There is hope for accidentally corrupted dail: though - AmagaDGS includes a recovery progracalled DiskDostor which our usually salvage some of mour data from a demonal disk



24 . NEW COMPUTER EXPRESS . 7 JANUARY 1989

Fear and loathing at the disk drive

own a Macistosh or an Atari ST (the nearest thing to a Mac), your computer will require

At least, if you hope to do anything remotely

ambitious with your computer - writing. music, creating graphics - you have to get to

eventually you'll come across a game that insists: "To save a game you require a blank,

Format: Preparing a blank disk for use by your

Delete: Removing files from disk (also called

most irritating - problems you can run into is

getting your printer to peoperly print the hash The pound problem arises because of the Americanisation of computers - most computers and printers default to an American character set which includes the 5 symbol, but not the 6

either the pound sign or the hash, but not both

Secondly, there are users who want both. For machine-code programmers) also need to use

Thirdly, a further complication arises when you're using a computer with a keyboard

Murds in a woddle?

amount of text on a page. Either your docubettom of each page, or each page becomes slightly misaligned so that the text starts lower

"My printer makes a hash of it"

Growth in the spring

In the first flush of enthusiases after buying your new computer, all seems well machine before this isn't surprising and if cassette and enough RAM to make you feel posi-

On machines like the Spectrum and Oid neo grammers know what the limitations are, and

the ST and Amiga. Your ST may only have one disk drive, but promismens know you could have IMb

Oddly enough, the problems are wome for



"How do I find out more?"

The whole subject matter of per-

poting by carrying weekly articles for payices.

Working out with Workbench

culties with their machine's operating system - a ArrigaDOS is split into two parts: the CU and

in fact not a patch on either. The CU is a corn There are problems with AmigaDOS apart from

FORSAT, DIR, ERASE, COPY) memory-resident in other words, they are always available.

FLoadWF and 'redck > niT add the following

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NCE

Sound memory

I am considering buying a sound some advice. A friend told me that digitized sound needs more memory than a 520ST has - is this true? And which make of sampler would you sampled sounds in my own pro-

. Samplers, or digitizers, work by con-

best-seling ST

Win a sub!

2730001, but if you can stretch to £70

File upgrade I have just apgraded

nately, after getting rid of the PCW I ealised I would need to transfer a lot of data from my old 3" disks to the in again from printouts. Is it possible to add a 3" drive to the PC1640, and what other hard

were/aptware would I



The place for your questions and suggestions

Multi-file movement

If you're fired of spending half your waking hours laboriously shifting those ST files about one by one there is a solution. Simply select the then hald down the SHET key and can now move up to three million flies all in one go.

3D binge I am interested in the subject of three-dimensional modelling and ray these areas. Can you recommend a suitable system and software for ery purposes? Money is no object.

money is no object, the size of your

TIP Better batching - take 2

6040 Please have disks mad cer over-so-slight bungle last week whereby the Better Batching to was rendered airrest totally unin-ECOPY CHIEFY DOCK ALMAN Simon Williams' tip in PC Update (Express issue 5) is a (Size of this ERRORLEVE), care enable you to switch plaks if

SCOPY CHAPATIST & ALMAN

TOTAL CHIESE TELL IN MANUAL

PACITE: Like of the /W switch to pause to enable you to in Sides are required. Also the /M metch as an only to back up Size that have been added or alloyed since the lest be (News with DOS 3.30 can replace these lines with: DECHO flappy. The /V switch checks that the capy is the same as

ECHO PLEASE INSERT ANOTHER DISK INTO DAME A-

ECHO PLEASE BOSERT AND THE B DICK BOTH DRIVE &-

ECHO PLEASE INSERT ANOTHER DISK INTO DRIVE A:

NEW COMPLIER EXPRESS + 7 MANAGE 1989 + 29

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ECHO Backing up Documents. Texts and Letters.

Open windows

Newcomers to 51s might be unaware

Spotting cards

One problem with a lot of PC software - especially public demain prohave written a number of programs and I would like them to be able to

this. If possible including a routine to

RPUT "What kind of graphics

HELP! Illiterate PC

I have discovered by accident that disks formatted or ted in GEM using either 3.5" or 5.25" drives. But a disk formatted on an ST in GEM cannot be read or written to by a PC. I just get a "General Failure Free" message. I have bried formatting in different Can you help me by saying why the ST can read and

to be able to transfer text files to and from both

Cette so, if any informed ST owners are reading this, perhaps. · Amstrad's PPC. Can it swap disks with an ST?

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the system for the first time. Worken costs £50.95. Further details from ADM on 0005

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Batch time

latch time here are all surts of

anacia suppused with point Pc. All you need to use the blokwing is DCS with a remain number above 3.8 and an editor to create the slowing batch and data files.

The forthingue involves "point," that is involved output from one command to sometime output from one command to sometime of the blokwing of the think the default device. Perhaps be simplere example is something like:

Bit for stats

St. Farswell then, 1955. New yearler seen the New Year in and get your head back together, what before to set you off in 1959 than a quick thought for the statisticisms of the world. What a tar life it is with notions statistics. The threll of a Chi appare tax, the brustlesse buth as you come to the conclusion of a Kalinsonia Goodness of Errar. Year

In on about, then you'll probably be interested in a clever life package that passed drowed you have been a clever life package that passed drowed you have not clearly a clearly all the clear life hard work as the Called Jakes State, it comes from the face of analysing condictions of data. Healing player with it, but not used it in anger yet, it is membered had growneding to the claim. The package with it is not seen and the required that the seen of data and performs all the regular state and the required by the committee of t

If find very useful, if you have a use for them, other needs, this is a package for operations at those apecialists are fixely to find it indisensible. Even though it probably has a small potential videose, the package is well designed, fully need of the package is and designed, fully need of the package is a recallest graphics.

mens drives and includes an excellent graphics output option. It still draw line, her and pie chlarb and during them to any Ganoa-compatible printer. The package is well worth a look if even port of your job is analysing date. Further details and a spec obset can be had by calling James Latty on 0472 693742.

This line will call DOEs directory common but instead of displaying it on screen, the is piping directive will direct it into a file calls \$2.00. If you want to you can check that the directory display is really these with the case and the case of the case of the case the case of the case of the case the the case the the case the case the case the the case the the case the case the case the case the case the the case the the case the case the the the case the case the the the case the case the the the the the case the the the case the the the case the the the case the case the the the the the case the the the case the the the the

ype dixixi
You can pipe input to a command as we is output from it. This ability can be used a output from it this ability can be used automate commands which would normal located input from the laryboard. Create mail data file called CRIANT by typing; may see U.S. PART (Resum)

[FE]Enters]
The key states in square brackets indicate single key reason—dun't be compared to type [EETURS]! The file CR.DMT now contains a sligid entripe retain character and can be used to replace a keycers in the date command, for instance, with the command, the instance.

sand, for instance, with the community
layer CEDLET
Input for the date command is taken from
RUBET, which is the same as greening
RUBET, which is the same as greening
RUBET committee the part of a serve date.
How for the really interesting bit. One is

tool eithor to create the following banch to call in TIMER.EXT: echo off echo Start time:

60 Start time: 80 < codet | find "C" "\$2 \$3 \$4 \$6 60 Pinish time: 80 < codet | find "C" 65 the Siconne supports.

As our oversion suggests, can seek as their a times, showing the mast and fall indirect for just above, any eleminative yes miner for just above, any eleminative yes to look death the end of it as a parameter. The row land to be proposed to the same the reduced a look of the look between the content of parameters over tase? oversions composed entangles and their contents composed entangles parameters, allows you to enter up to if commands to be intend. Thy:

to the program will print start and end is for a 100 command. The batch like could be very handly for ranning program benchmarks among other though, The betchings was taken then a very interesting 185006 book called Deparchapting 185005 by the Microston, published by the Microstif Perso, which challed liven when it is believe when it

Silly games time

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Amiga hits the road

This week's tips are decidely above board. He under

te Actions" this week is Firebird's space trading Below is more of a reference chart for use when

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* Not worth dealing with

Amiga takes on the Mac

Message Port issues raised within this polume or the Amigus then I'd love to hear from you. Note to: AMIGA BLIT, New Computer

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the majority of its content in devel ed to the more serious side of the Spectrum. Both issue runs to about 2005 o programs, letters, atticles totals sections and utilities, all accesses

sections and statute, as accuses than a mean or the field resisions in limiting perially not tape. The level resists accounted at tape of state many results has to make grow use of the format or compensate in the inconvenience of insiding peak level and and the being also to result in the beth, for example. Other does that, when all yet his even of the counter of

most find anywhere dax, in graphiis dense and simple games. Sandschool in between the programs so hady answering strates, a likesy page, sodio board and news section. The whole subcoole has a clubby momphere, and it shanges to some across sectionly without elegi toe boring. In short, I was appeared. Coming born a cyrosic

and the second second second second second second feeting, which is bug completed.

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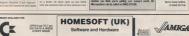
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by adding and are tremendously complicated - and Locarnities is affering NEC 24-pin printers to go glerious 24-pin quality. Yez, all those LecoForted

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As this is a bit expensive It'll throw in an NEC PS The printer drivers are also available for £24.95 without the free printers. More details on 0306 in February, Sector Software plans to release a five-disc As far as the 280 is concerned, Dileye Jones, author of

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YOUR FORMAT



Ninia raw

I spoke to Peter on the 'phone and he gave . Use your Sharakans and smoke Bombs

Peter is currently working on two excit-

Nintendo link

induction that the MSX will grow in

Royal review

Exit Philips? Attnough Philips has yet to make an official annumerment, it seems that when it has leared current stocks of MSX 2 computers it

PC-compatibles. I know that this sounds like bad news for 1988, but all is not doors and gloom. The MSX 2 computers are about three stay competitive. I know that Philips is workan MSX 2 I don't think Philips could drop the MSA entirely, as it is used for educational purpose ket is debatable; price will be a decisive fac-

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PSsst!

ter from someone in Essex called Alan sent to

most've felt when you had a company to to have to wander round amongst all the to Lay off half a dozen of them. I've always thought that we could was the whole damn caboodle with ten people, but those

Anyway, have I got a nice little easses for you - straight up. No sweat, it's don't need anything else of yours sun thing. I know you've never been one for the perception game, but your machine's Cambridge all over it - give it a bit of style and class. Showe in a few shots of

As for the other metter, well knock me does with a feather! Leave it out old son

couldn't give a monkey's for that sort of into any and every oddball idea. Otterla

to get in on the act. Dead eary!

pundits began hanging on about the Sinstriking again! No offence, like. Still. with it. Marbe I need to develop the oud-

what's all this then?" - shows it all

So why not another change? New year, new

pose - it's all a pame, isn't it chun? You the industry, Sinkers, will be much appre-

more about being hard businessmen acrewing en erm and a leg. Just a toke. Usual rates will

I'll have to take my leave of you, make, I've got to leg it over to Himbledon. It seems they want some one to sponsor them who are "more commensurate Tottenham a couple of years back. Had with a terrific slopen: "Hoddle, Maddle bunch of woofters signed up with some Look at 'en now, that's what I say!

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